PATENT APPLICATION

JUL 11 2005 25

YTHE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

HAMPDEN-SMITH et al.

Serial No.: 10/790,958

Filed: March 2, 2004

Confirmation No.: 2158

Atty. File No.: 41890-01693

For: "PALLADIUM-CONTAINING PARTICLES, METHOD AND APPARATUS

OF MANUFACTURE, PALLADIUM-CONTAINING DEVICES MADE

THERFROM"

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Group Art Unit: 1775

Examiner: TBD

INFORMATION DISCLOSURE STATEMENT

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO COMMISSIONED FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON

MARSH FISCHMANN & BREYFOGLE LLP

By: Die Lori Lane

Dear Sir:

Pursuant to Applicant's duty of disclosure under 37 CFR § 1.56 and 37 CFR §§ 1.97-1.98, Applicant hereby submits the enclosed PTO Form 1449, although Applicant does not admit that any of such documents, alone or in any combination, is considered to be material to patentability as defined in 37 CFR § 1.56(b). Moreover, the inclusion of these documents is not to be construed as an admission by Applicant that each such document is prior art as to the above-identified application. Pursuant to the Official Gazette Notice of August 5, 2003, copies of any U.S. Patents or published U.S. Patent Applications are not being submitted herewith. Copies of any foreign patent and non-patent documents are submitted herewith.

Respectfully submitted,

MARSH FISCHMANN & BREYFOGLE LLP

Date: July & Deels

Heath J. Briggs

Reg. No. 54,919

3151 South Vaughn Way, Suite 411

Aurora, Colorado 80014 Telephone: (303) 338-0997 Facsimile: (303) 338-1514 INFORMATION DISCLOSURE CITATION
(Use several sheek Unecessary)

Docket Number (optional) 41890-01693 **Application Number**

10/790,958

Applicant(s)

HAMPDEN-SMITH et al.

Filing Date

Group art Unit

March 2, 2004 1775

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1.	3,846,345	11/05/74	Mason et al.	252	514	
	2.	4,130,671	12/19/78	Nagesh et al.	427	125	
	3.	4,023,961	05/17/77	Douglas et al.	75	.5AC	
	4.	4,274,877	06/23/81	Collier et al.	75	252	
	5.	4,396,420	08/02/83	Schmidberger et al.	75	0.5AC	
	6.	4,539,041	09/03/85	Figlarz et al.	75	0.5A	
	7.	4,897,110	01/30/90	Kock et al.	75	0.5A	
	8.	5,126,915	06/30/92	Pepin et al.	361	304	
	9.	5,288,430	02/22/94	Amemiya	252	512	
	10.	5,356,842	10/18/94	Yamakawa et al.	501	87	
	11.	5,402,305	03/28/95	Asada et al.	361	305	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	A.	62-2404	01/08/87	Japan			х	
	В.	63-31522	06/24/88	Japan			х	
	C.	0 537502	04/21/93	EPO				х
	D.	0 593 167	04/20/94	EPO				
	E.	6-172802	06/21/94	Japan			х	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

- i. Che, Shenglei et al., "Evolution of Particle Structure During the Formation of Single-Crystal Spherical Palladium Particles By Spray Pyrolysis,"

 J. Ceram. Soc. Japan, Vol. 105, No. 4 (1997), pp. 299-303.
 - Che, Shenglei et al., "Preparation And Formation Mechanism Of Silica-Encapsulated Palladium Particles By Spray Pyrolysis," J. Ceram. Soc. Japan, Vol. 105, No. 3 (1997), pp. 269-271 [Japanese text with English Abstract].

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application

Form PTO-A820 (also form PTO-1449)

ii.

Patent and Trademark Office *U.S. DEPARTMENT OF COMMERCE

Docket Number (optional) **Application Number** : 4 10/790,958 41890-01693 Applicant(s) INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) HAMPDEN-SMITH et al. Group art Unit Filing Date 1775 March 2, 2004 U.S. PATENT DOCUMENTS *EXAMINER **CLASS** SUBCLASS FILING DATE IF REF DOCUMENT NUMBER DATE NAME APPROPRIATE INITIAL 05/30/95 361 305 12. 5,420,744 Asada et al. 06/06/95 Kodas et al. 75 355 13. 5,421,854 75 351 07/04/95 Glicksman et al. 14. 5,429,657 08/08/95 Kodas et al. 75 365 15. 5,439,502 16. 5,495,386 02/27/96 Kulkarni 361 303 17. 5,512,379 04/30/96 Kawasumi et al. 428 548 75 369 04/01/97 Glicksman et al. 18. 5,616,165 12/22/98 419 63 19. Jacobsen et al. 5,852,768 75 337 20. 5,928,405 07/27/99 Ranada et al. 75 21. 6,165,247 12/26/00 Kodas et al. 331 75 336 22. 08/21/01 Hampden-Smith et al. 6,277,169 FOREIGN PATENT DOCUMENTS Translation **CLASS SUBCLASS** DATE COUNTRY REF DOCUMENT NUMBER YES NO Х 07/02/96 F. 8-170112 Japan Х **EPO** 0776717 06/04/97 G. OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Che, Shenglei et al., "Effect of Calcium Modification On The Microstructure and Oxidation Property of Submicron Spherical Palladium iii. Powders," J. Mater. Res., Vol. 12, No. 2 (Feb. 1997), pp. 392-397. Che, Shenglei et al., "Effects of Starting Materials On The Preparation Of Spherical Pd Powders By Ultrasonic Spray Pyrolysis," J. Ceram. Soc. iv. Japan, Vol. 104, Int. Ed. (1996), pp. 39-44. DATE CONSIDERED EXAMINER EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application

Form PTO-A820 (also form PTO-1449)

5.3

Docket Number (optional) **Application Number** 41890-01693 10/790,958 Applicant(s) INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) HAMPDEN-SMITH et al. Filing Date Group art Unit March 2, 2004 1775 U.S. PATENT DOCUMENTS REF DOCUMENT NUMBER DATE NAME **CLASS** SUBCLASS FILING DATE IF *EXAMINER APPROPRIATE INITIAL 03/02/04 75 336 6,699,304 Hampden-Smith et al. 23. FOREIGN PATENT DOCUMENTS Translation **SUBCLASS** DATE COUNTRY **CLASS** REF DOCUMENT NUMBER YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) DATE CONSIDERED **EXAMINER** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application

Form PTO-A820 (also form PTO-1449)

Application Number Docket Number (optional) 10/790,958 41890-01693 Applicant(s) INFORMATION DISCLOSURE CITATION HAMPDEN-SMITH et al. (Use several sheets if necessary) Filing Date Group art Unit March 2, 2004 1775 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) *EXAMINER INITIAL -Gurav, Abhijit et al., "Aerosol Processing of Materials," Aerosol Sci. & Tech., 19 (1993), pp. 411-452. Jain, Sanjeev et al., "In Situ Formation of Coated and Composite Palladium Particles via Spray Pyrolysis," J. vi. Electrochem. Soc., Vol. 143, No. 11 (Nov. 1996), pp. 3762-3770. Nagashima, K. et al., "Properties of Conductive Films Made From Fine Spherical Silver-Palladium Alloy Particles," vii. J. Mater. Sci., 26 (1991), pp. 2477-2482. viii. Pluym, Tammy C. et al., "Silver-Palladium Alloy Particle Production By Spray Pyrolysis," J. Mater. Res., Vol. 10, No. 7 (July 1995), pp. 1661-1673. Wang, Sea Fue et al., "Silver-Palladium Thick-Film Conductors," J. Am. Ceram. Soc., Vol. 77, No. 12 (1994), pp. ix. 3051-3072. DATE CONSIDERED **EXAMINER** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered.

Form PTO-A820 (also form PTO-1449)

Include copy of this form with next communication to application